KIESELMANN
FLUID PROCESS GROUP

Operating instructions

- Translation of the original -

Double seat valve Typ: 567x

EPDM, HNBR

17.10.12

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2. Information for your safety

We are pleased that you have decided for a high-class KIESELMANN product. With correct application and adequate maintenance, our products provide long time and reliable operation.

Before installation and initiation, please carefully read this instruction manual and the security advices contained in it. This guarantees reliable and safe operation of this product and your plant respectively. Please note that an incorrect application of the process components may lead to great material damages and personal injury.

In case of damages caused by non observance of this instruction manual, incorrect initiation, handling or external interference, guarantee and warranty will lapse!

Our products are produced, mounted and tested with high diligence. However, if there is still a reason for complaint, we will naturally try to give you entire satisfaction within the scope of our warranty. We will be at your disposal also after expiration of the warranty. In addition, you will also find all necessary instructions and spare part data for maintenance in this instruction manual. If you don't want to carry out the maintenance by yourself, our KIESELMANN service team will naturally be at your disposal.

3. Marking of security instructions in the operating manual

Hints are available in the chapter "safety instructions" or directly before the respective operation instruction. The hints are highlighted with a danger symbol and a signal word. Texts beside these symbols have to be read and adhered to by all means. Please continue with the text and with the handling at the valve only afterwards.

Symbol	Signal word	Meaning
	DANGER	Imminent danger which may cause severe personal injury or death.
	ATTENTION	Dangerous situation which may cause slight personal injury or material damages.
	NOTE	Marks application hints and other information which is particularly useful.

4. Safety instructions

4.1 Field of application

Based upon its functions, the double seat valve is suitable for use in the food and beverages, in pharmaceutical, biotechnological and chemical industries. It is used mainly in combinations with several other double seat valves for the purpose of emptying and filling containers with the possibility of connecting several pipes to one tank.

ATTENTION

- To avoid danger and damage, the fitting must be used in accordance with the safety instructions and technical data contained in the operating instructions.

4.2 General safety instructions

DANGER

- Danger of crushing or amputating limbs.
  Do not reach into the valve housing when in pneumatic mode.
- When removing the valve or valve components from the system, there is a danger of injury from escaping liquids or gases.
  Only dismantle when you are absolutely sure that the system is depressurized and free of liquids and gases.
- Danger of scalding and burns to parts of your body from liquids escaping from the leakage drain.
  The splash protection fixtures must always be attached to the leakage drain.
- The actuation can be dismantled.
  Danger of injury by prestressed pressure spring. Observe separate installation instructions.
- We recommend having the manufacturer do the maintenance work required for the actuation.

ATTENTION

- To avoid air leaking, only use pneumatic connection parts that have an O-ring seal facing the even surface.
- When mounting the clamps, the max. torque must not be exceeded (see Technical data).
- Steps should be taken to ensure that no external forces are exerted on the fitting.

4.3 General notes

NOTE

All data are in line with the current state of development. Subject to change as a result of technical progress.

5. Function

5.1 Functional description

The valve is opened from bottom to top by means of control air, and is closed from top to bottom by means of spring power without any loss of product. The upper and lower valve chambers are separated during infeed in a leak-proof fashion with two, independently closed valve discs when different media flow through the valve. Leakage which occurs due to damaged valve disc seals is discharged into the atmosphere without pressure via the leakage outlet (fig. 9 /page 12 resp. fig. 10 /page 13).

6. Installation informations

6.1 Installation instructions

The valve must be installed vertically with the actuator at the upwards. Liquid must be able to flow freely from the valve housing.

6.2 Welding guidelines

Sealing elements integrated in weld components must generally be removed prior to welding.

- To prevent damage, welding should be undertaken by certified personnel (EN287).
- Use the TIG (tungsten inert gas) welding process.

NOTE
Impurities can cause damage to the seals. Clean inside areas prior to assembly.

7. Maintenance

7.1 Maintenance

The maintenance intervals depend on the operating conditions

- temperature, temperature-intervals
- medium and cleaning medium
- pressure and opening frequency

We recommend replacing the seals every 1 years. The user, however should establish appropriate maintenance intervals according to the condition of the seals.

NOTE

		Lubricant recommendation
EPDM; Viton; K-flex; NBR; HNBR	⇨	Klüber Paraliq GTE703*
Silicone	⇨	Klüber Sintheso pro AA2*
Thread	⇨	Interflon Food*

**) It is only permitted to use approved lubricants, if the respective fitting is used for the production of food or drink. Please observe the relevant safety data sheets of the manufacturers of lubricants.*

7.2 Cleaning

Cleaning of the housing is performed with the pipe cleaning system. As part of the cleaning program, the leakage chamber and the drain pipe can be cleaned by cycling the valve discs. The valve disc shaft is also cleaned when the upper valve disc is cycled.

Alternatively, the leakage chamber and the shaft of the upper valve disc can be cleaned by means of the external rinsing connection (ESP). For cleaning the shaft, the upper valve disc has to be lifted.

7.3 Cleaning flow rate

➤ **Leakage chamber - Cleaning parameters***

Cleaning step	Aerate valve disc		Cleaning flow rate - clocking at the top or at the bottom (m³/h /3bar) Nominal diameter DN							
		DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
Pre-Rinse	-	clocking at top	3,5	4,0	4,0	5,0	6,0	7,5	9,0	14,5
Wash 80°C	3 x 5 sec.									
Intermediate rinse	2 x 5 sec.									
Acid	3 x 5 sec.	clocking at bottom	2,0	2,5	2,5	3,0	3,0	4,5	6,0	9,0
Final rinse	2 x 5 sec.									

**.Recommended for the Beverage Industry*

8. Technical data

Model:	Double seat valve
Valve size:	DIN: DN25 - DN150 INCH: DN1 - DN4
Connection:	Welding end DIN11850 series 2
Temperature range:	• Ambient temperature: +4° - +45°C • Product temperature: +0° - +95°C medium dependent • Sterilization temperature: +140°C short time (30min)
Operations pressure:	DIN: DN25 - 100 = max. 10 bar DN125 - 150 = max. 6 bar INCH: DN1 - DN4 = max. 10 bar
Pressure resistance:	40 bar
Vacuum:	1,5 - 10^{-6} mbar x $^{l}/_{s}$ (test pressure 0,5mbar)
Control air pressure:	5,5 - 8,0 bar
Quality of control air:	ISO 8573-1 : 2001 quality class 3

Material:	**in product contact**	**not in product contact**
Stainless steel:	1.4404 / AISI316L	1.4301 / AISI304
Surfaces:	RA ≦0,8µm e-pol.	metallic bright, e-pol.
Seals:	EPDM (FDA) HNBR (FDA)	NBR

Tightening moment:

Retaining clamp: nominal diameter

DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
Torque in Nm	15	15	15	25	25	55	65	65

KV-value (m³/h):

Direction of flow:

nominal diameter

DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
transition-flow at top ⇔	26	50	95	150	240	380	580	940
transition-flow at bottom ⇔	26	55	100	155	250	390	590	940
from bottom to top ⇗	16	26	45	72	98	155	245	370
from top to bottom ⇖	16	24	43	67	93	150	240	330

9. Control system - and interrogation system

9.1 Special features valve control -optional-

Optionally, modular valve control systems can be installed to the actuator for reading and actuating valve positions. The standard version is a closed system with SPS or ASI-bus switch-on electronics, and integrated 3/2-way solenoid valves. For tough operating conditions we recommend employing a stainless steel hood.

9.2 Proximity switch mounting set -optional-

For the acquisition of the valve positions over inductive initiators, a limit switch support is mounted on the actuation. The enquiry takes place over the position of the piston rod.

10. Pneumatic valve actuation

Valve function	Pneum. control ➟ with integrated (MV) in control unit (fig. 1 /page 7)	Pneum. control ➟ with external (MV) (fig. 2 /page 7)
Valve stroke valve “OPEN“	control air feed P ➟ MV1 ➟ P1/LA1	control air feed ext.MV1 ➟ LA1
Valve stroke valve “CLOSED“	de-aeration P1/LA1 ➟ MV1 ➟ R valve is closing by spring	de-aeration LA1 ➟ ext.MV1 valve is closing by spring
Lower seat lift	OPEN = control air feed P ➟ MV2 ➟ P2/LA2	OPEN = control air feed ext.MV2 ➟ P ➟ LA2
	CLOSE = de-aeration P2/LA2 ➟ MV2 ➟ R	CLOSE = de-aeration LA2 ➟ P ➟ ext.MV2
Upper seat lift	OPEN = control air feed P ➟ MV3 ➟ P3/LA3	OPEN = control air feed ext.MV3 ➟ LA3
	CLOSE = de-aeration P3/LA3 ➟ MV3 ➟ R	CLOSE = de-aeration LA3 ➟ ext.MV3

MV = solenoid valve

MV1 = valve stroke

MV2 = lower seat lift

MV3 = upper seat lift

R = de-aeration, sound absorber

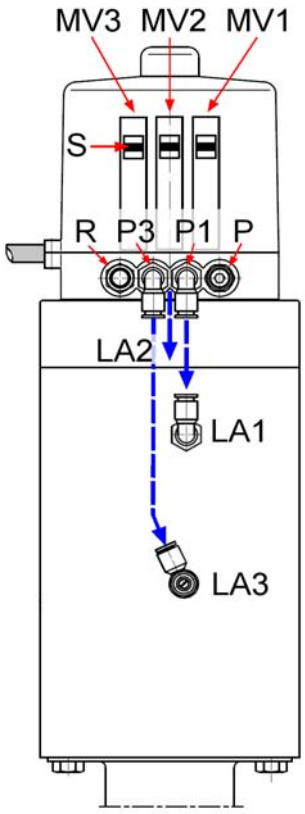
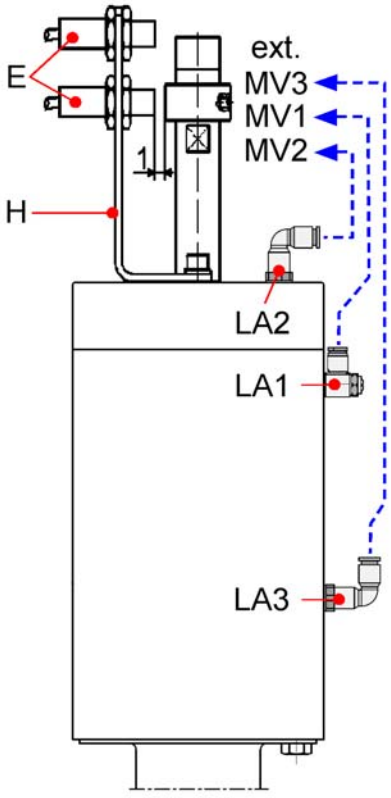
P = compressed-air inlet (control unit)

LA = compressed-air inlet (actuation)

S = slide switch - manual control (solenoid valves)

E = proximity switch M12x1

H = proximity switch mount.

with control unit and solenoid valve	pneum. control external
 fig. 1	 fig. 2

11. Disassembly and Assembly

11.1 Disassembly

NOTE
All threaded joint have right-hand thread.
Unscrew and remove control air, steam i.e. cleaning lines and electrical lines, complete proximity switch mounting or control head.

➢ ***Assembling tool kit***

NW	Article no.:
25-65	5670.065.100-000
80-100	5670.100.100-000
125-150	5670.150.100-000

socket spanner M1

eccentric socket M2

eccentric ring M3

hook wrench M4

socket spanner M5

mounting plate M6

- Unscrew the upper retaining clamp (3).
- Remove the pneumatic valve insert, with the insert (5), the upper seal (D1) and the upper bearing bush (4) along from the top of the housing (1).
- Unscrew the lower retaining clamp (3).
- Remove the housing bottom (2) with the lower insert (5), the seal (D1) and the lower bearing bush (4).

11.2 Removing in product contact wearing parts - DN25

We recommend to use for the assembly / disassembly the assembling tool kit. (Stock number see Tab. Assembling tool kit)

- Unscrew the nut (11) and revove the disc (10).
- Separate the lower piston (6) from the upper piston (7) in axial direction.
- Take off the split washer (13).
- Unsrew the hexagon nut (14).
- Push the lantern (15) in direction ‘X‘ until the hole (B1) is freely visible (fig. 9 /page 12).
- Place the hook spanner in the bore hole (B1) and screw out the upper piston (7) at the top with the mounting plate (see fig. 3 /page 8).
- Push off the insert (5), the upper seal (D1) and the upper bearing bush (4) of the piston (7) against direction ‘X‘.
- Remove the valve lift stop (16) upwards.
- Remove the seals: Item.(D1); (D2)(4x); (D4)(2x); (D5); (D8); (D9); (D10).

➢ **Piston upper**

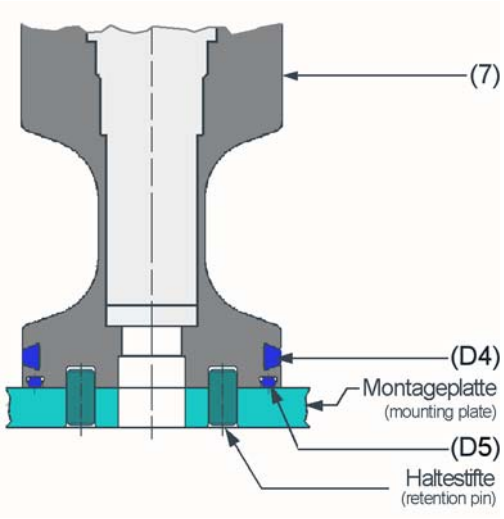


fig. 3

11.3 Assemble

Assemble in reverse order.

Thoroughly clean and slightly lubricate mounting areas and running surfaces.

➢ **Assembly - seals item (D4) (2x)**

- Slide the seal onto the groove.
- Place rod of approx. diameter 2 between the seal and groove in the direction of the axis.
- Remove the twist of the seal by repeated 360° rotations of the rod between seal and groove if necessary.
- Alternately press and roll the seal into the groove with round body.

NOTE
- Fit valve insert carefully into the casing. When fitting the valve insert and running surfaces onto the piston, do not damage.
- Always replace the self-locking nut (11) by a new one after unscrewing and secure it with removeable screw retention e.g. Loctite 243.
- Check valve functions by manually activating the 3/2-way solenoid valves after assembly!

11.4 Removing in product contact wearing parts - DN40-DN150

We recommend to use for the assembly / disassembly the assembling tool kit. (Stock number see Tab. Assembling tool kit)

- Unscrew the lock nut (11) and remove the disc (10).
- Separate the lower piston (6) from the upper piston (7) in axial direction.
- Take off the split washer (13).
- Clamp the mounting plate into the vice.
- Position the piston plate lower (9) about the two holes (B2) in the retention pin (see fig. 4 /page 9).
- Position the mounting lever M5 into the slot (E) (fig. 4 /page 9) and unscrew the piston (6) from the lower piston plate (9).
- Remove seal (D4) and O-Ring (D6).
- Unscrew hexagon screw (14)(4x).
- Push lantern (15) in direction "X" until the hole (B1) is freely visible (fig. 10 /page 13).
- Unscrew the upper piston (7) about the holes (B3) and the retention pin. Counter with the hook wrench M4 at the hole (B1) (fig. 5 /page 9).
- Push off the insert (5), the upper seal (D1) and the upper bearing bush (4) of the piston (7) against direction 'X' (fig. 10 /page 13).
- Unscrew the upper piston (7) with the socket spanner M1 from the upper piston plate (8).
- Remove seal (D4) and the O-Rings (D3) and (D5).
- Dismount the Valve lift stop (16) in direction "X".
- Dismantle the seals: Item.(D2)(4x), Item.(D8)(2x), Item.(D9), Item.(D10)

➢ Assembling tool kit

NW	Article no.:
25-65	5670.065.100-000
80-100	5670.100.100-000
125-150	5670.150.100-000

socket spanner M1

eccentric socket M2

eccentric ring M3

hook wrench M4

socket spanner M5

mounting plate M6

11.5 Assembly

- Assemble in reverse order.
- Thoroughly clean and slightly lubricate mounting areas and running surfaces.

NOTE

- *Fit valve insert carefully into the casing. When fitting the valve insert and running surfaces onto the piston, do not damage.*
- *Always replace the hexagon lock nut (11) by a new one after unscrewing.*
- *Check valve functions by manually activating the 3/2-way solenoid valves after assembly.*

➢ Assembly - seals item (D4) (2x)

- Screw in piston plate (8) resp. (9) without the seal (D4) to the metal limit stop in the piston (6) resp. (7) and make a coloured mark (fig. 6 /page 9).
- Screw out the piston plate (8) resp. (9) of the piston (6) resp. (7).
- Push the seal (D4) into the piston (6) resp. (7) and screw the piston plate (8) resp. (9) into the pistons (6) resp. (7) by hand.
- Position the eccentric ring (M3) on the seal (D4) (fig. 5 /page 9).
- Clamp the mounting plate into the vice and fix the piston plate (8) resp. (9) (see fig. 4 /page 9 resp. fig. 5 /page 9).
- Position the socket spanner M1 resp. M5 and screw the piston (6) resp. (7) up to the final limit mark (fig. 6 /page 9).

➢ Piston lower

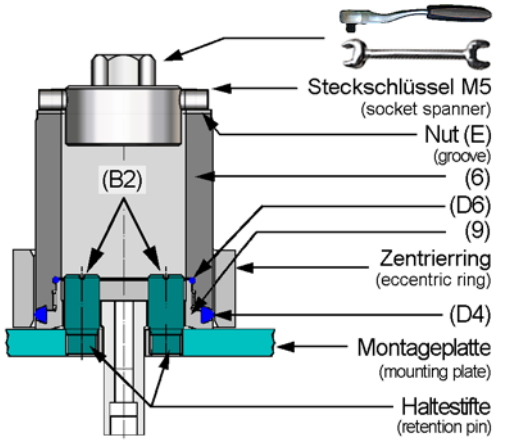


fig. 4

➢ Piston upper

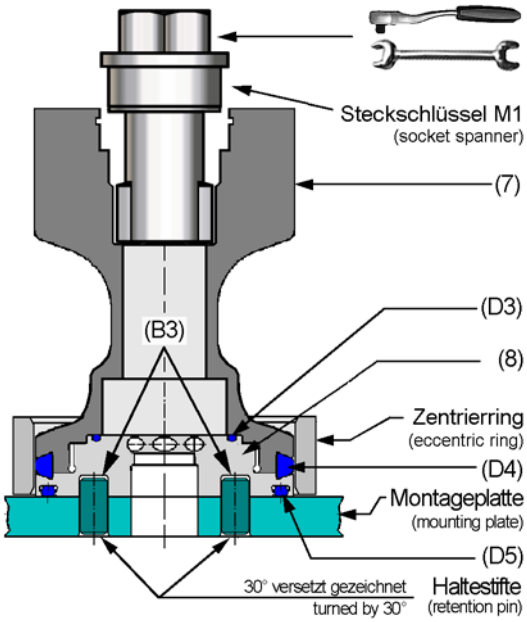


fig. 5

➢ Mark

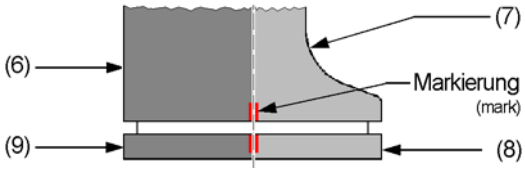


fig. 6

12. Dimensions

12.1 Size measurement table

	DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
D1	DIN INCH	ø 29x1,5 ø 25,4x1,65	ø 41x1,5 ø 38,1x1,65	ø 53x1,5 ø 50,8x1,65	ø 70x2 ø 63,5x1,65	ø 85x2 ø 76,2x1,65	ø 104x2 ø 101,6x2,11	ø 129x2 -	ø 154x2 -
D2	DIN INCH	ø 29x1,5 ø 25,4x1,65	ø 41x1,5 ø 38,1x1,65	ø 53x1,5 ø 50,8x1,65	ø 70x2 ø 63,5x1,65	ø 85x2 ø 76,2x1,65	ø 104x2 ø 101,6x2,11	ø 129x2 -	ø 154x2 -
D3	DIN INCH	ø 128 ø 128	ø 128 ø 128	ø 128 ø 128	ø 128 ø 128	ø 160 ø 160	ø 160 ø 160	ø 230 -	ø 230 -
D4	- Standard rinsing connection: screwed socket DN15 DIN11851 - Rinsing connection: M14x1,5 with cutting ring union for tube 8x1								
L1	DIN INCH	150 150	170 170	170 170	210 210	230 230	260 260	320 -	345 -
L2	DIN INCH	118 112,1	132 127,4	154 151,3	181 189,1	228 223,4	264 264,7	315 -	337 -
L3	DIN INCH	46 42	59 56	72 68,5	87 81	106 98	125 122	150 -	175 -
L4	DIN INCH	448 448	447 447	446 446	464 464	531 531	560 560	615 -	628 -
L5	DIN INCH	- -	- -	- -	172 -	192,5 -	232 -	- -	- -
size when completed									
with control head L6	DIN INCH	600 600	600 600	630 630	680 680	790 790	860 860	960 -	1015 -
without control head L6	DIN INCH	590 590	590 590	620 620	670 670	780 780	850 850	950 -	1005 -
with control head L7	DIN INCH	- -	- -	- -	953 -	1079 -	1184 -	- -	- -
without control head L7	DIN INCH	- -	- -	- -	818 -	944 -	1049 -	- -	- -

12.2 Dimensioned drawing

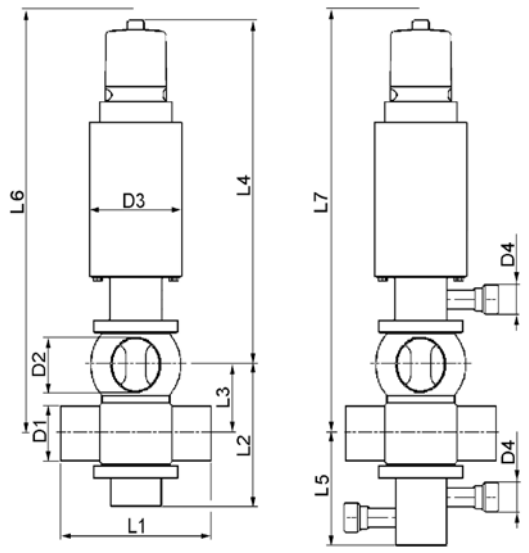


fig. 7

13. Drawings

13.1 Double seat valve Type 567x

A1 = Control head

A2 = Proximity switch mount.

VE = Valve insert

1 = Valve housing
S-S
SS-S
S-SS
SS-SS

2a = Housing bottom

2b = Housing bottom with rinsing connection

3 = Retaining clamp

4 = Bearing bush

5 = Housing insert

15a = Lantern

15b = Lantern with rinsing connection

21 = Screwed socket

D1 = Seal

D2 = O-Rings

D11 = O-Rings

D12 = O-Rings

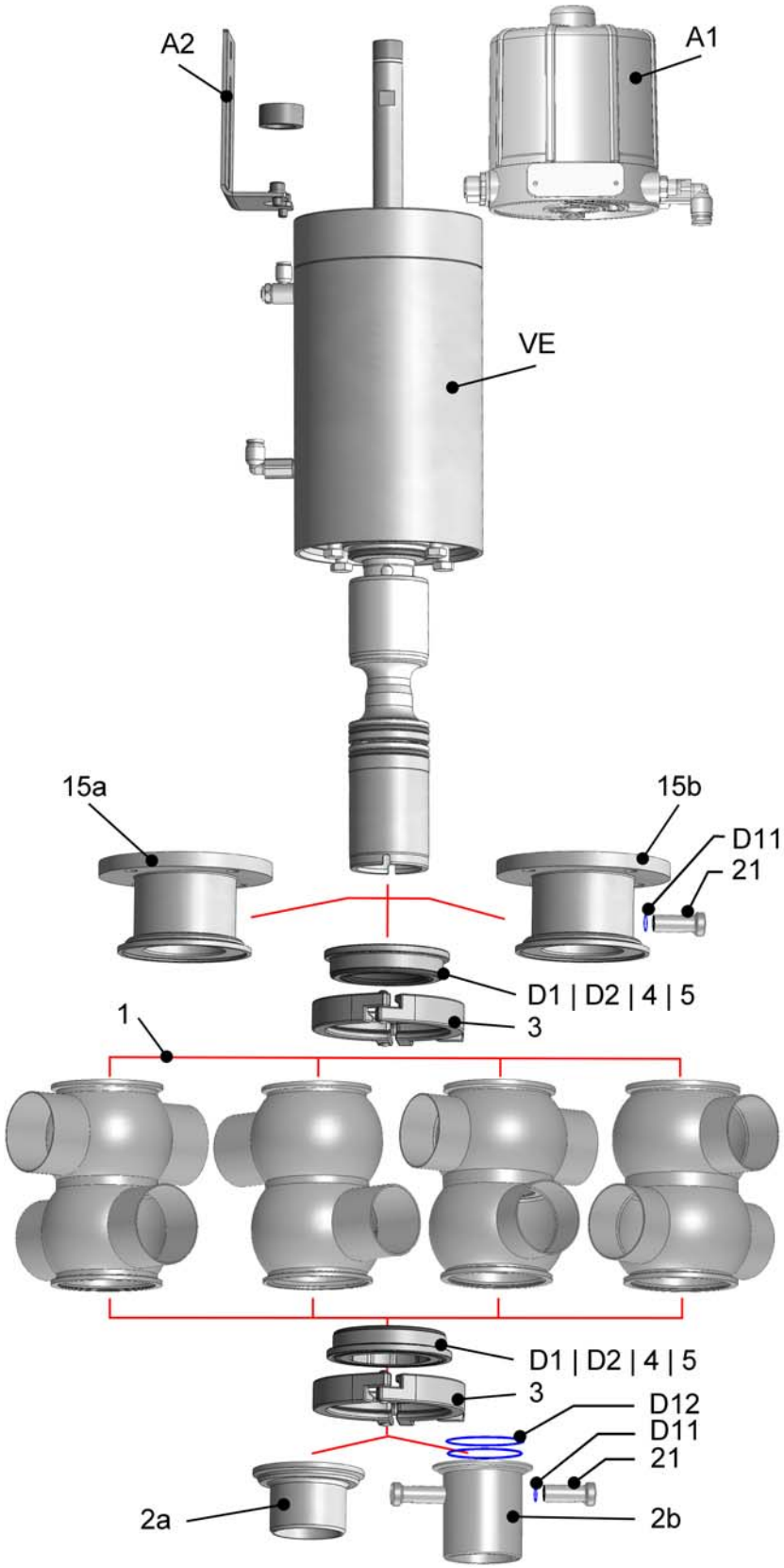


fig. 8

13.2 Valve insert DN25 / 1INCH

1) -
2) -
3) Rtaining clamp
4) Bearing bush
5) Housing insert
6) Piston lower
7) Piston upper
8) -
9) -
10) Disc
11) Hexagon nut
12) Plain bearing
13) Split washer
14) Hexagon screw
15) Lantern
16) Valve lift stop
17) pneum. actuator
18) Position indication red
19) O-Ring
20) Screwed cap

Seal kit

D1) Seal (2x)
D2) O-Ring (4x)
D3) -
D4) Seal (2x)
D5) O-Ring
D6) -
D7) Headless pin
D8) O-Ring (2x)
D9) O-Ring
D10) O-Ring

B = Bore
E = Slot
X = Leakage tell taue
IG = Puls generator
M = Magnets

G1 = Lock nut high strength (e.g. Loctite 2701)
LA1 = Main valve lift
LA2 = Lower seat lift
LA3 = Upper seat lift
Y = Detail

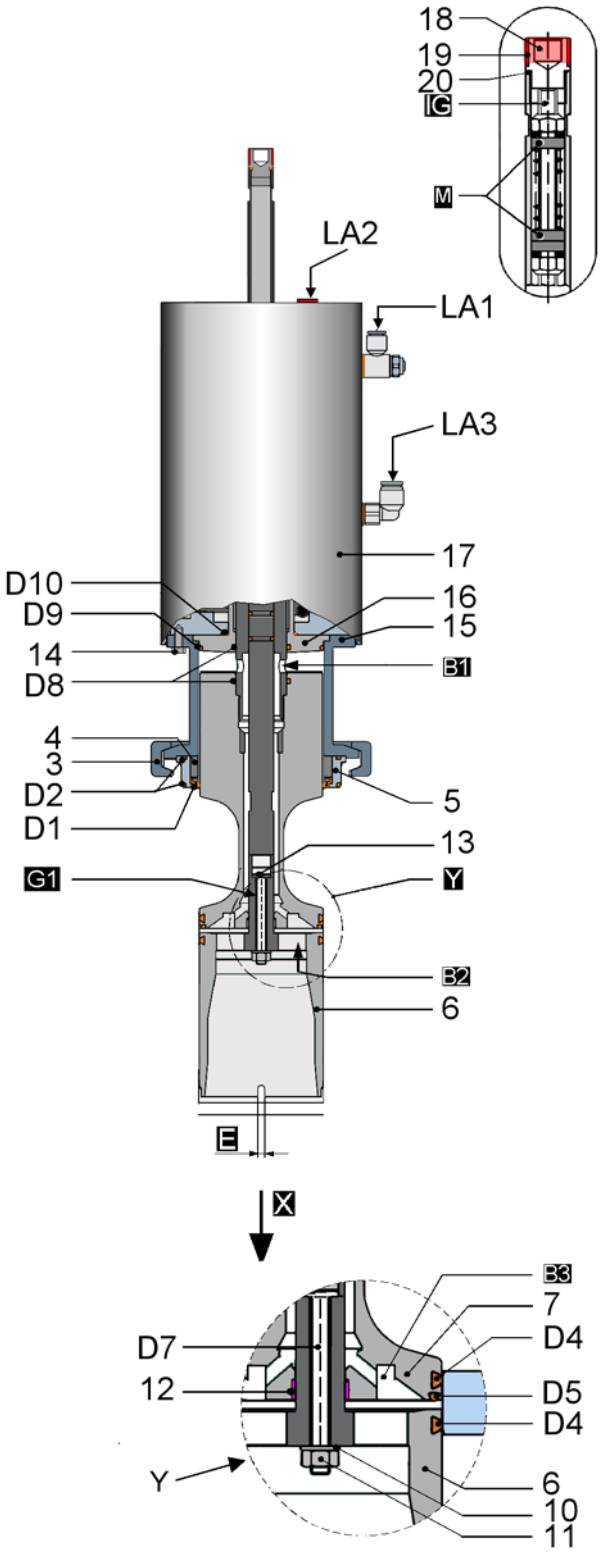


fig. 9

13.3 Valve insert DN40 - DN150 / 1½ - 4INCH

1) -
2) -
3) Rtaining clamp
4) Bearing bush
5) Housing insert
6) Piston lower
7) Piston upper
8) Piston plate upper
9) Piston plate lower
10) Disc
11) Hexagon nut
12) Plain bearing
13) Split washer
14) Hexagon screw
15) Lantern
16) Valve lift stop
17) pneum. actuator
18) Position indication red
19) O-Ring
20) Screwed cap

Seal kit

D1) Seal (2x)
D2) O-Ring (4x)
D3) O-Ring
D4) Seal (2x)
D5) O-Ring
D6) O-Ring
D7) Headless pin
D8) O-Ring (2x)
D9) O-Ring
D10) O-Ring

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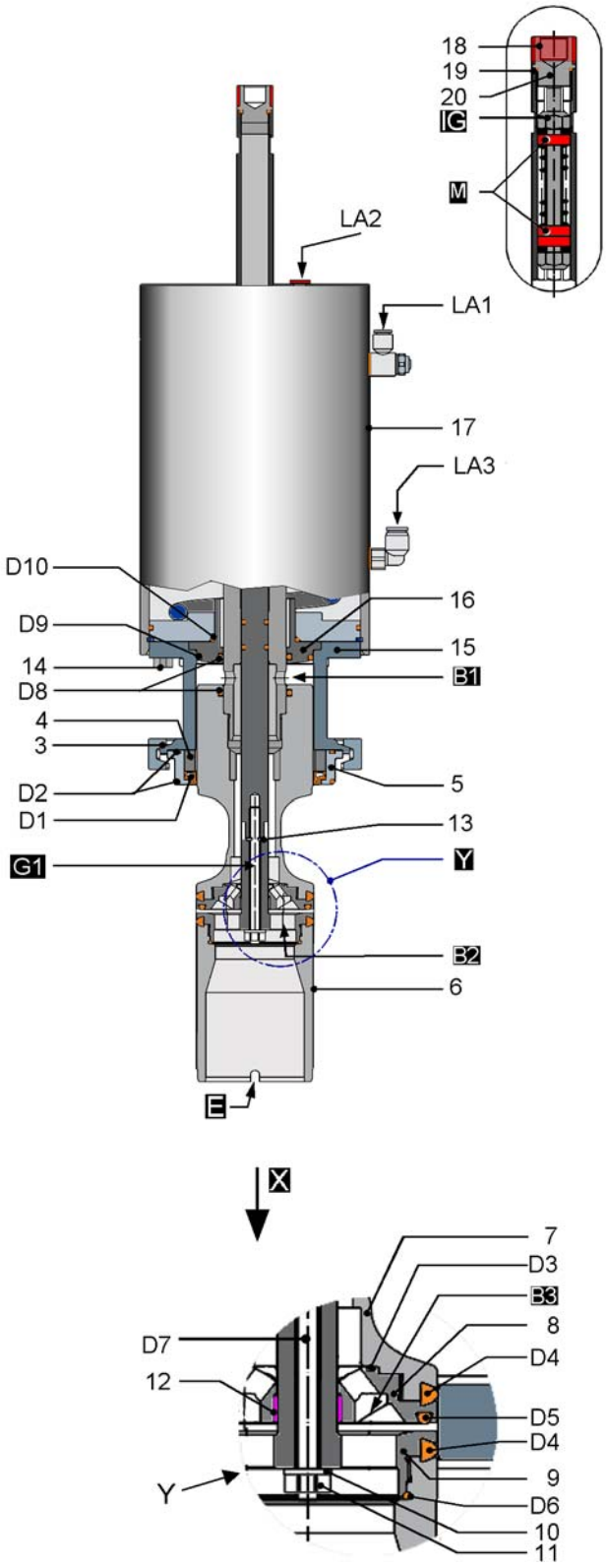
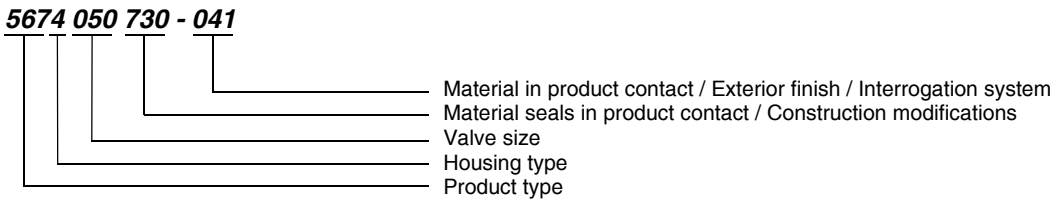


fig. 10

14. Manufacturing

14.1 Structure of Article number


5674 050 730 - 041
Material in product contact / Exterior finish / Interrogation system
Material seals in product contact / Construction modifications
Valve size
Housing type
Product type

➤ Product type

Double seat valve Type 567x

➤ Housing type

5670	5671 SS-S	5672 S-S	5673 S-SS	5674 SS-SS
Valve without housing				

➤ Valve size

DN = Nominal diameter

DIN	**025** = DN25	**040** = DN40	**050** = DN50	**065** = DN65	**080** = DN80	**100** = DN100	**125** = DN125	**150** = DN150
INCH	**026** = DN1	**038** = DN1½	**051** = DN2	**064** = DN2½	**076** = DN3	**101** = DN4	-	-

➤ Material seal / Construction modifications

Material seals in product contact: EPDM, HNBR, NBR, Viton, Silikon, k-flex
Construction modifications: external rinsing connection upper / lower

➤ Material in product contact / Exterior finish

020 - 1.4301/1.4307 AISI304/307 - bright turned	**040** - 1.4301/1.4307 AISI304/307 - bright turned
021 - 1.4301/1.4307 AISI304/307 - E-polished	**041** - 1.4301/1.4307 AISI304/307 - E-polished
022 - 1.4301/1.4307 AISI304/307 - unpolished, glass-bead blasted	**042** - 1.4301/1.4307 AISI304/307 - unpolished, glass-bead blasted

➤ Interrogation system

Article number	Control System or Interrogation System (A1, A2)
56xx DN xxx **-041**	Valve without Control- or Interrogation System
56xx DN xxx **-750**	Valve with Sensor mounting set (5630 005 000-020)
56xx DN xxx **-6xx**	Control head ASi-Bus for Double seat valves
56xx DN xxx **-K6xx**	Control head KI-Top ASi-Bus for Double seat valves
56xx DN xxx **-5xx**	Control head SPS for Double seat valves
56xx DN xxx **-K5xx**	Control head KI-Top SPS for Double seat valves

DN - nominal diameter e.g. 5674 ***050*** *730-041*

15. Spare parts list - Double seat valve Type 567x, DN 25 / 1inch (1.4404 / AISI316L)

Housing type	Seal	Article number	VE Valve insert	Seal kit	Item.1 Housing DIN / INCH
Standard					
SS - S	EPDM	5671 DN 130 - xxx	5670 DN 130-041	5670 025 130-000	5621 DN 001-041 / 5661 DN 001-041
S - S	EPDM	5672 DN 130 - xxx	5670 DN 130-041	5670 025 130-000	5622 DN 001-041 / 5662 DN 001-041
S - SS	EPDM	5673 DN 130 - xxx	5670 DN 130-041	5670 025 130-000	5623 DN 001-041 / 5663 DN 001-041
SS - SS	EPDM	5674 DN 130 - xxx	5670 DN 130-041	5670 025 130-000	5624 DN 001-041 / 5664 DN 001-041
SS - S	HNBR	5671 DN 420 - xxx	5670 DN 420-041	5670 025 420-000	5621 DN 001-041 / 5661 DN 001-041
S - S	HNBR	5672 DN 420 - xxx	5670 DN 420-041	5670 025 420-000	5622 DN 001-041 / 5662 DN 001-041
S - SS	HNBR	5673 DN 420 - xxx	5670 DN 420-041	5670 025 420-000	5623 DN 001-041 / 5663 DN 001-041
SS - SS	HNBR	5674 DN 420 - xxx	5670 DN 420-041	5670 025 420-000	5624 DN 001-041 / 5664 DN 001-041
ext. rinsing connection upper					
SS - S	EPDM	5671 DN 760 - xxx	5670 DN 760-041	5670 025 769-000	5621 DN 001-041 / 5661 DN 001-041
S - S	EPDM	5672 DN 760 - xxx	5670 DN 760-041	5670 025 769-000	5622 DN 001-041 / 5662 DN 001-041
S - SS	EPDM	5673 DN 760 - xxx	5670 DN 760-041	5670 025 769-000	5623 DN 001-041 / 5663 DN 001-041
SS - SS	EPDM	5674 DN 760 - xxx	5670 DN 760-041	5670 025 769-000	5624 DN 001-041 / 5664 DN 001-041
SS - S	HNBR	5671 DN 770 - xxx	5670 DN 770-041	5670 025 779-000	5621 DN 001-041 / 5661 DN 001-041
S - S	HNBR	5672 DN 770 - xxx	5670 DN 770-041	5670 025 779-000	5622 DN 001-041 / 5662 DN 001-041
S - SS	HNBR	5673 DN 770 - xxx	5670 DN 770-041	5670 025 779-000	5623 DN 001-041 / 5663 DN 001-041
SS - SS	HNBR	5674 DN 770 - xxx	5670 DN 770-041	5670 025 779-000	5624 DN 001-041 / 5664 DN 001-041
rinsing connection: M14x1,5 with cutting ring union for tube 8x1					
SS - S	EPDM	5671 DN 762 - xxx	5670 DN 762-041	5670 025 769-000	5621 DN 001-041 / 5661 DN 001-041
S - S	EPDM	5672 DN 762 - xxx	5670 DN 762-041	5670 025 769-000	5622 DN 001-041 / 5662 DN 001-041
S - SS	EPDM	5673 DN 762 - xxx	5670 DN 762-041	5670 025 769-000	5623 DN 001-041 / 5663 DN 001-041
SS - SS	EPDM	5674 DN 762 - xxx	5670 DN 762-041	5670 025 769-000	5624 DN 001-041 / 5664 DN 001-041
SS - S	HNBR	5671 DN 772 - xxx	5670 DN 772-041	5670 025 779-000	5621 DN 001-041 / 5661 DN 001-041
S - S	HNBR	5672 DN 772 - xxx	5670 DN 772-041	5670 025 779-000	5622 DN 001-041 / 5662 DN 001-041
S - SS	HNBR	5673 DN 772 - xxx	5670 DN 772-041	5670 025 779-000	5623 DN 001-041 / 5663 DN 001-041
SS - SS	HNBR	5674 DN 772 - xxx	5670 DN 772-041	5670 025 779-000	5624 DN 001-041 / 5664 DN 001-041

DDN- Nominal diameter e.g. 5674 050 730-041
xxx - Material in product contact / Exterior finish / Interrogation system (see Tab. Interrogation system)
S - Welding end

Item	Designation	Material	DN25 / 1INCH
2	Housing bottom	AISI303	5671 025 008-220
3	Retaining clamp (2x)	AISI304	2122 065 100-020
4	Bearing bush lower	PTFE	5622 050 006-053
5	Housing insert lower	AISI316L	5672 025 004-040
D1	Seal (included in seal kit)	EPDM HNBR	5622 050 010-069 5622 050 010-050
D2	O-Ring (2x) (included in seal kit)	EPDM HNBR	2304 069 026-159 2304 069 026-050

15.1 Spare parts list - Valve insert Type 5670, DN 25 / 1INCH

Item	Designation	Material	DN25	1INCH
VE	**Valve insert (a)** Standard	**EPDM** **HNBR**	5670 025 130-041 5670 025 420-041	5670 026 130-041 5670 026 420-041
VE	**Valve insert (b)** ext. rinsing connection upper	**EPDM** **HNBR**	5670 025 760-041 5670 025 770-041	5670 026 760-041 5670 026 770-041
VE	**Valve insert (c)** rinsing connection: M14x1,5 with cutting ring union for tube 8x1	**EPDM** **HNBR**	5670 025 762-041 5670 025 772-041	5670 026 762-041 5670 026 772-041
4	Bearing bush upper	PTFE	5622 050 006-053	
5	Housing insert upper	AISI316L	5672 025 004-040	
6	Piston lower	AISI316L	5671 025 005-040	
7	Piston upper	AISI316L	5622 025 003-040	
8	-	-	-	
9	-	-	-	
10	Disc	AISI304	8071 064 001-020	
11	Hexagon nut	AISI304	8113 006 000-020	
12	Plain bearing	XMS	8050 015 007-156	
13	Split washer	AISI304	8140 006 001-020	
14	Hexagon screw	AISI304	8106 008 016-020	
15	Lantern Valve insert (a) Lantern compl. - Valve insert (b) Lantern compl. - Valve insert (c)	AISI304 AISI304 AISI304	5624 040 008-021 5624 040 515-021 5624 040 517-021	
16	Valve lift stop	AISI303	5622 025 009-220	
17	Pneum. actuator	AISI304	5620 065 000-021	
18	Position indication red	PVC	5622 100 058-151	
19	O-Ring	NBR	2304 012 020-055	
20	Screwed cap	AISI303	5622 100 071-220	
21	Screwed socket	AISI303	5624 065 514-020	
LA1	One-way restricter	-	8218 001 020-000	
LA3	Rapid action hose coupling	-	8217 000 004-000	

15.2 Seal kits - Double seat valve Type 567x, DN 25 / 1INCH

Item	Designation	Material	DN25 / 1INCH
	Seal kit EPDM (A) ***Seal kit EPDM (B) -*** *rinsing connection upper*	***EPDM*** ***EPDM***	***5670 025 130-000*** ***5670 025 769-000***
D1	*Seal (2x)*	*EPDM*	*5622 050 010-069*
D2	*O-Ring (4x)*	*EPDM*	*2304 069 026-159*
D3	-	-	-
D4	*O-Ring (2x)*	*EPDM*	*2304 047 035-159*
D5	*O-Ring*	*EPDM*	*2304 041 035-159*
D6	-	-	-
D7	*Headless pin*	*AISI304*	*8112 006 040-020*
D8	*O-Ring (2x)*	*EPDM*	*2304 036 035-159*
D9	*O-Ring*	*EPDM*	*2304 047 035-159*
D10	*O-Ring*	*HNBR*	*2304 042 025-055*
D11	*O-Ring (seal kit B)*	*EPDM*	*2304 014 020-170*
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*

Item	Designation	Material	DN25 / 1INCH
	Seal kit HNBR (A) ***Seal kit HNBR (B) -*** *rinsing connection upper*	***HNBR*** ***HNBR***	***5670 025 420-000*** ***5670 025 779-000***
D1	*Seal (2x)*	*HNBR*	*5622 050 010-050*
D2	*O-Ring (4x)*	*HNBR*	*2304 069 026-050*
D3	-	-	-
D4	*O-Ring (2x)*	*HNBR*	*2304 047 035-157*
D5	*O-Ring*	*HNBR*	*2304 041 035-157*
D6	-	-	-
D7	*Headless pin*	*AISI304*	*8112 006 040-020*
D8	*O-Ring (2x)*	*EPDM*	*2304 036 035-159*
D9	*O-Ring*	*EPDM*	*2304 047 035-159*
D10	*O-Ring*	*NBR*	*2304 042 025-055*
D11	*O-Ring (seal kit B)*	*EPDM*	*2304 014 020-170*
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*

16. Spare parts list Double seat valve Type 567x, DN 40 - 150 / DN1 - 4INCH (1.4404 / AISI316L)

Housing type	Seal	Article number	VE Valve insert	Seal kit	Item.1 Housing DIN / INCH	Item. 2 Housing bottom
Standard					*AISI316L*	*AISI303*
SS - S	**EPDM**	**5671 DN 730-xxx**	**5670 DN 730-041**	**5670 DN 739-000**	*5621 DN 001-041 / 5661 DN 001-041*	*5671 DN 008-220*
S - S		**5672 DN 730-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 730-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 730-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	
SS - S	**HNBR**	**5671 DN 720-xxx**	**5670 DN 720-041**	**5670 DN 729-000**	*5621 DN 001-041 / 5661 DN 001-041*	
S - S		**5672 DN 720-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 720-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 720-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	
ext. rinsing connection upper						
SS - S	**EPDM**	**5671 DN 760-xxx**	**5670 DN 760-041**	**5670 DN 769-000**	*5621 DN 001-041 / 5661 DN 001-041*	
S - S		**5672 DN 760-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 760-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 760-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	*5671 DN 008-220*
SS - S	**HNBR**	**5671 DN 770-xxx**	**5670 DN 770-041**	**5670 DN 779-000**	*5621 DN 001-041 / 5661 DN 001-041*	*complete with Item 21 and D11*
S - S		**5672 DN 770-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 770-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 770-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	
rinsing connection: M14x1,5 with cutting ring union for tube 8x1						
SS - S	**EPDM**	**5671 DN 762-xxx**	**5670 DN 762-041**	**5670 DN 769-000**	*5621 DN 001-041 / 5661 DN 001-041*	
S - S		**5672 DN 762-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 762-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 762-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	*5671 DN 008-220*
SS - S	**HNBR**	**5671 DN 772-xxx**	**5670 DN 772-041**	**5670 DN 779-000**	*5621 DN 001-041 / 5661 DN 001-041*	*complete with Item 21 and D11*
S - S		**5672 DN 772-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 772-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 772-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	
ext. rinsing connection lower						
SS - S	**EPDM**	**5671 DN 793-xxx**	**5670 DN 793-041**	**5670 DN 799-000**	*5621 DN 001-041 / 5661 DN 001-041*	
S - S		**5672 DN 793-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 793-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 793-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	*5676 DN 023-220*
SS - S	**HNBR**	**5671 DN 792-xxx**	**5670 DN 792-041**	**5670 DN 798-000**	*5621 DN 001-041 / 5661 DN 001-041*	*complete with Item 21 and D11*
S - S		**5672 DN 792-xxx**			*5622 DN 001-041 / 5662 DN 001-041*	
S - SS		**5673 DN 792-xxx**			*5623 DN 001-041 / 5663 DN 001-041*	
SS - SS		**5674 DN 792-xxx**			*5624 DN 001-041 / 5664 DN 001-041*	

DN = Nominal diameter e.g. 5674 050 730-041
xxx = Material in product contact / Exterior finish / Interrogation system (see Tab. Interrogation system)
S = Welding end

Item	Designation	Material	DN40 1½INCH	DN50 2INCH	DN65 2½INCH	DN80 3INCH	DN100 4INCH	DN125 -	DN150 -
3	*Retaining clamp (2x)*	*AISI304*	*2122 065 100-020*	*2122 065 100-020*	*2122 080 100-020*	*2122 115 100-020*	*2122 125 100-020*	*2122 150 100-020*	*2122 200 100-020*
4	*Bearing bush lower*	*PTFE*	*5622 050 006-053*	*5622 050 006-053*	*5622 065 006-053*	*5622 080 006-053*	*5622 100 006-053*	*5622 125 006-053*	*5622 150 006-053*
5	*Housing insert lower*	*AISI316L*	*5622 050 005-040*	*5622 050 005-040*	*5622 065 005-040*	*5622 080 005-040*	*5622 100 005-040*	*5622 125 005-040*	*5622 150 005-040*
D1	*Seal (included in seal kit)*	*EPDM*	*5622 050 010-069*	*5622 050 010-069*	*5622 065 010-069*	*5622 080 010-069*	*5622 100 010-069*	*5622 125 010-069*	*5622 150 010-069*
		HNBR	*5622 050 010-050*	*5622 050 010-050*	*5622 065 010-050*	*5622 080 010-050*	*5622 100 010-050*	*5622 125 010-050*	*5622 150 010-050*
D2	*O-Ring (2x) (included in seal kit)*	*EPDM*	*2304 069 026-159*	*2304 069 026-159*	*2304 082 026-159*	*2304 098 035-159*	*2304 117 035-159*	*2304 142 035-159*	*2304 177 035-170*
		HNBR	*2304 069 026-050*	*2304 069 026-050*	*2304 082 026-050*	*2304 098 035-050*	*2304 117 035-050*	*2304 142 035-050*	*2304 177 035-050*

16.1 Spare parts list - Valve insert Type 5670, DN 40 - 150 / DN 1 - 4INCH

Item	Designation	Material	DN40 1½INCH	DN50 2INCH	DN65 2½INCH	DN80 3INCH	DN100 4INCH	DN125 -	DN150 -
VE	**Valve insert (a) - DIN -** Standard	EPDM HNBR	5670 040 730-041 5670 040 720-041	5670 050 730-041 5670 050 720-041	5670 065 730-041 5670 065 720-041	5670 080 730-041 5670 080 720-041	5670 100 730-041 5670 100 720-041	5670 125 730-041 5670 125 720-041	5670 150 730-041 5670 150 720-041
VE	**Valve insert (b) - DIN -** ext. rinsing connection upper	EPDM HNBR	5670 040 760-041 5670 040 770-041	5670 050 760-041 5670 050 770-041	5670 065 760-041 5670 065 770-041	5670 080 760-041 5670 080 770-041	5670 100 760-041 5670 100 770-041	5670 125 760-041 5670 125 770-041	5670 150 760-041 5670 150 770-041
VE	**Valve insert (c) - DIN -** rinsing connection: M14x1,5 with cutting ring union for tube 8x1	EPDM HNBR	5670 040 762-041 5670 040 772-041	5670 050 762-041 5670 050 772-041	5670 065 762-041 5670 065 772-041	5670 080 762-041 5670 080 772-041	5670 100 762-041 5670 100 772-041	5670 125 762-041 5670 125 772-041	5670 150 762-041 5670 150 772-041
VE	**Valve insert (d) - DIN -** ext. rinsing connection lower	EPDM HNBR	5670 040 793-041 5670 040 792-041	5670 050 793-041 5670 050 792-041	5670 065 793-041 5670 065 792-041	5670 080 793-041 5670 080 792-041	5670 100 793-041 5670 100 792-041	5670 125 793-041 5670 125 792-041	5670 150 793-041 5670 150 792-041
VE	**Valve insert (a) - INCH -** Standard	EPDM HNBR	5670 038 730-041 5670 038 720-041	5670 051 730-041 5670 051 720-041	5670 064 730-041 5670 064 720-041	5670 076 730-041 5670 076 720-041	5670 101 730-041 5670 101 720-041	-	-
VE	**Valve insert (b) - INCH -** ext. rinsing connection upper	EPDM HNBR	5670 038 760-041 5670 038 770-041	5670 051 760-041 5670 051 770-041	5670 064 760-041 5670 064 770-041	5670 076 760-041 5670 076 770-041	5670 101 760-041 5670 101 770-041	-	-
VE	**Valve insert (c) - INCH -** rinsing connection: M14x1,5 with cutting ring union for tube 8x1	EPDM HNBR	5670 038 762-041 5670 038 772-041	5670 051 762-041 5670 051 772-041	5670 064 762-041 5670 064 772-041	5670 076 762-041 5670 076 772-041	5670 101 762-041 5670 101 772-041	-	-
VE	**Valve insert (d) - INCH -** ext. rinsing connection lower	EPDM HNBR	5670 038 793-041 5670 038 792-041	5670 051 793-041 5670 051 792-041	5670 064 793-041 5670 064 792-041	5670 076 793-041 5670 076 792-041	5670 101 793-041 5670 101 792-041	-	-
4	Bearing bush upper	PTFE	5622 050 006-053	5622 050 006-053	5622 065 006-053	5622 080 006-053	5622 100 006-053	5622 125 006-053	5622 150 006-040
5	Housing insert upper	AISI316L	5622 050 005-040	5622 050 005-040	5622 065 005-040	5622 080 005-040	5622 100 005-040	5622 125 005-040	5622 150 005-040
6	Piston lower -valve insert (a),(b),(c) Piston lower -valve insert (d)	AISI316L	5621 040 005-040 5676 040 023-040	5671 050 005-040 5676 050 023-040	5671 065 005-040 5676 065 023-040	5671 080 005-040 5676 080 023-040	5671 100 005-040 5676 100 023-040	5671 125 005-040 5676 125 023-040	5671 150 005-040 5676 150 023-040
7	Piston upper	AISI316L	5621 040 007-040	5621 050 007-040	5621 065 007-040	5621 080 007-040	5621 100 007-040	5621 125 007-040	5621 150 007-040
8	Piston plate upper	AISI316L	5621 050 006-040	5621 050 006-040	5621 065 006-040	5621 080 006-040	5621 100 006-040	5621 125 006-040	5621 150 006-040
9	Piston plate lower	AISI316L	5621 040 004-040	5621 050 004-040	5621 065 004-040	5621 080 004-040	5621 100 004-040	5621 125 004-040	5621 150 004-040
10	Disc	AISI304	8071 064 001-020	8071 064 001-020	8071 064 001-020	8071 084 001-020	8071 084 001-020	8071 105 001-020	8071 105 001-020
11	Hexagon nut	AISI304	8113 006 000-020	8113 006 000-020	8113 006 000-020	8113 008 000-020	8113 008 000-020	8113 010 000-020	8113 010 000-020
12	Plain bearing	XMS	8050 015 007-156	8050 015 007-156	8050 015 007-156	8050 020 007-156	8050 020 007-156	8050 020 007-156	8050 020 007-156
13	Split washer	AISI304	8140 006 001-020	8140 006 001-020	8140 006 001-020	8072 008 001-020	8072 008 001-020	-	-
14	Hexagon screw Disc DIN125	AISI304 AISI304	8106 008 016-020 -	8106 008 016-020 -	8106 008 016-020 -	8106 008 016-020 -	8106 008 016-020 -	8106 008 025-020 8071 084 001-020	8106 008 025-020 8071 084 001-020
15	Lantern -valve insert (a), (d) Lantern compl. -valve insert (b) Lantern compl. -valve insert (c)	AISI304 AISI304 AISI304	5624 040 008-021 5624 040 515-021 5624 040 517-021	5624 050 008-021 5624 050 515-021 5624 050 517-021	5624 065 008-021 5624 065 515-021 5624 065 517-021	5624 080 008-021 5624 080 515-021 5624 080 517-021	5624 100 008-021 5624 100 515-021 5624 100 517-021	5624 125 008-021 5624 125 515-021 5624 125 517-021	5624 150 008-021 5624 150 515-021 5624 150 517-021
16	Valve lift stop	AISI303	5622 040 009-220	5622 050 009-220	5622 065 009-220	5622 080 009-220	5622 100 009-220	5622 125 009-220	5622 150 009-220
17	Pneum. actuator	AISI304	5620 065 000-021	5620 065 000-021	5620 065 000-021	5620 100 000-021	5620 100 000-021	5620 150 000-021	5620 150 000-021
18	Position indication red	PVC	5622 100 058-151	5622 100 058-151	5622 100 058-151	5622 100 058-151	5622 100 058-151	5622 100 058-151	5622 100 058-151
19	O-Ring	NBR	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055
20	Screwed cap	AISI303	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220
21	Screwed socket	AISI303	5624 065 514-020	5624 065 514-020	5624 065 514-020	5624 100 514-020	5624 100 514-020	5624 150 514-020	5624 150 514-020
LA1	One-way restricter	-	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000
LA3	Rapid action hose coupling	-	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000

16.2 Seal kits - Double seat valve Type 567x, DN 40 - 150 / DN 1 - 4INCH

Item	Designation	Material	DN40 1½INCH	DN50 2INCH	DN65 2½INCH	DN80 3INCH	DN100 4INCH	DN125 -	DN150 -
	Seal kit (A) *- Standard*	*EPDM*	*5670 040 739-000*	*5670 050 739-000*	*5670 065 739-000*	*5670 080 739-000*	*5670 100 739-000*	*5670 125 739-000*	*5670 150 739-000*
	Seal kit (B) *- rinsing connection upper*	*EPDM*	*5670 040 769-000*	*5670 050 769-000*	*5670 065 769-000*	*5670 080 769-000*	*5670 100 769-000*	*5670 125 769-000*	*5670 150 769-000*
	Seal kit (C) *- rinsing connection lower*	*EPDM*	*5670 040 799-000*	*5670 050 799-000*	*5670 065 799-000*	*5670 080 799-000*	*5670 100 799-000*	*5670 125 799-000*	*5670 150 799-000*
D1	*Seal (2x)*	*EPDM*	*5622 050 010-069*	*5622 050 010-069*	*5622 065 010-069*	*5622 080 010-069*	*5622 100 010-069*	*5622 125 010-069*	*5622 150 010-069*
D2	*O-Ring (4x)*	*EPDM*	*2304 069 026-159*	*2304 069 026-159*	*2304 082 026-159*	*2304 098 035-159*	*2304 117 035-159*	*2304 142 035-159*	*2304 177 035-170*
D3	*O-Ring*	*EPDM*	*2304 026 015-170*	*2304 026 015-170*	*2304 029 015-170*	*2304 042 020-170*	*2304 036 020-170*	*2304 036 020-170*	*2304 036 020-170*
D4	*Seal (2x)*	*EPDM*	*5621 050 010-084*	*5621 050 010-084*	*5621 065 010-084*	*5621 080 010-084*	*5621 100 010-084*	*2304 113 053-084*	*2304 133 053-159*
D5	*O-Ring*	*EPDM*	*2304 041 035-159*	*2304 041 035-159*	*2304 050 035-159*	*2304 066 035-159*	*2304 085 035-159*	*2304 111 035-084*	*2304 140 035-159*
D6	*O-Ring*	*EPDM*	*2304 038 018-170*	*2304 038 018-170*	*2304 048 020-170*	*2304 057 020-170*	*2304 076 020-170*	*2304 092 035-159*	*2304 108 035-170*
D7	*Headless pin*	*AISI316L*	*8112 006 050-040*	*8112 006 060-040*	*8112 006 085-040*	*8112 008 050-040*	*8112 008 085-040*	*8112 010 065-020*	*8112 010 090-040*
D8	*O-Ring*	*EPDM*	*2304 036 035-159*	*2304 036 035-159*	*2304 036 035-159*	*2304 041 035-159*	*2304 041 035-159*	*2304 041 035-159*	*2304 041 035-159*
D9	*O-Ring*	*EPDM*	*2304 047 035-159*	*2304 047 035-159*	*2304 057 035-159*	*2304 069 035-159*	*2304 092 035-159*	*2304 117 035-159*	*2304 142 035-159*
D10	*O-Ring*	*NBR*	*2304 042 025-055*	*2304 042 025-055*	*2304 042 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*
D11	*O-Ring (1x) (seal kit B)* *O-Ring (2x) (seal kit C)*	*EPDM*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 016 020-170*	*2304 016 020-170*	*2304 016 020-170*
D12	*O-Ring (2x) (only seal kit C)*	*EPDM*	*-*	*2304 036 035-159*	*2304 054 035-159*	*2304 082 035-159*	*-*	*-*	*-*
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*	*8113 006 000-020*	*8113 006 000-020*	*8113 008 000-020*	*8113 008 000-020*	*8113 010 000-020*	*8113 010 000-020*

Item	Designation	Material	DN40 1½INCH	DN50 2INCH	DN65 2½INCH	DN80 3INCH	DN100 4INCH	DN125 -	DN150 -
	Seal kit (A) *- Standard*	*HNBR*	*5670 040 729-000*	*5670 050 729-000*	*5670 065 729-000*	*5670 080 729-000*	*5670 100 729-000*	*5670 125 729-000*	*5670 150 729-000*
	Seal kit (B) *- rinsing connection upper*	*HNBR*	*5670 040 779-000*	*5670 050 779-000*	*5670 065 779-000*	*5670 080 779-000*	*5670 100 779-000*	*5670 125 779-000*	*5670 150 779-000*
	Seal kit (C) *- rinsing connection lower*	*HNBR*	*5670 040 798-000*	*5670 050 798-000*	*5670 065 798-000*	*5670 080 798-000*	*5670 100 798-000*	*5670 125 798-000*	*5670 150 798-000*
D1	*Seal (2x)*	*HNBR*	*5622 050 010-050*	*5622 050 010-050*	*5622 065 010-050*	*5622 080 010-050*	*5622 100 010-050*	*5622 125 010-050*	*5622 150 010-050*
D2	*O-Ring (4x)*	*HNBR*	*2304 069 026-050*	*2304 069 026-050*	*2304 082 026-050*	*2304 098 035-050*	*2304 117 035-050*	*2304 142 035-050*	*2304 177 035-050*
D3	*O-Ring*	*EPDM*	*2304 026 015-170*	*2304 026 015-170*	*2304 029 015-170*	*2304 042 020-170*	*2304 036 020-170*	*2304 036 020-170*	*2304 036 020-170*
D4	*Seal (2x)*	*HNBR*	*5621 050 010-157*	*5621 050 010-157*	*5621 065 010-157*	*5621 080 010-157*	*5621 100 010-157*	*2304 113 053-157*	*2304 133 053-157*
D5	*O-Ring*	*HNBR*	*2304 041 035-157*	*2304 041 035-157*	*2304 050 035-157*	*2304 066 035-157*	*2304 085 035-157*	*2304 111 035-157*	*2304 140 035-157*
D6	*O-Ring*	*EPDM*	*2304 038 018-170*	*2304 038 018-170*	*2304 048 020-170*	*2304 057 020-170*	*2304 076 020-170*	*2304 092 035-159*	*2304 108 035-170*
D7	*Headless pin*	*AISI316L*	*8112 006 050-040*	*8112 006 060-040*	*8112 006 085-040*	*8112 008 050-040*	*8112 008 085-040*	*8112 010 065-020*	*8112 010 090-040*
D8	*O-Ring*	*EPDM*	*2304 036 035-159*	*2304 036 035-159*	*2304 036 035-159*	*2304 041 035-159*	*2304 041 035-159*	*2304 041 035-157*	*2304 041 035-159*
D9	*O-Ring*	*EPDM*	*2304 047 035-159*	*2304 047 035-159*	*2304 057 035-159*	*2304 069 035-159*	*2304 092 035-159*	*2304 117 035-159*	*2304 142 035-159*
D10	*O-Ring*	*NBR*	*2304 042 025-055*	*2304 042 025-055*	*2304 042 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*
D11	*O-Ring (1x) (seal kit B)* *O-Ring (2x) (seal kit C)*	*EPDM*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 016 020-170*	*2304 016 020-170*	*2304 016 020-170*
D12	*O-Ring (2x) (only seal kit C)*	*EPDM*	*-*	*2304 036 035-159*	*2304 054 035-159*	*2304 082 035-159*	*-*	*-*	*-*
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*	*8113 006 000-020*	*8113 006 000-020*	*8113 008 000-020*	*8113 008 000-020*	*8113 010 000-020*	*8113 010 000-020*

KIESELMANN
FLUID PROCESS GROUP

Declaration of incorporation

Translation of the original

Manufacturer / authorised representative:

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Product name	**Function**
pneum. Lift actuators	Stroke movement
pneum. Rotary actuators	Rotary movement
Ball valves	Media cutoff
Butterfly valves	Media cutoff
Single seat valves	Media cutoff
Flow control valves	Control of liquefied media
Throttle valve	Control of liquefied media
Overflow valve	Definition of fluid pressure
Double seat valve	Media separation
Bellow valves	Sampling of liquids
Sampling valves	Sampling of liquids
Two way valves	Media cutoff
Tankdome fitting	Prevention of overpressure and vacuum, Tank cleaning

The manufacturer hereby states that the above product is considered as an incomplete machine in the sense defined in the Directive 2006/42/EC on Machinery. The above product is exclusively intended to be installed into a machine or an incomplete machine. The said product does not yet conform to all the relevant requirements defined in the Directive on Machinery referred to above for this reason.

The specific technical documents listed in Appendix VII, Part B, have been prepared. The Authorized Agent empowered to compile technical documents may submit the relevant documents if such a request has been properly justified.

Commissioning of an incomplete machine may only be carried out if it has been determined that the respective machine into which the incomplete machine is to be installed conforms to the regulations set out in the Directive on Machinery referred to above.

The above product conforms to the requirements of the directives and harmonized standards specified below:

- DIN EN ISO 12100 Safety of machinery

Knittlingen, 17. 10. 2012

Klaus Dohle
General Director